

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-2 (canceled).

Claim 3 (currently amended): A process ~~Process~~ for determining an angle of polarization plane from a vertical plane or a horizontal plane in a radio LAN master station ~~according to claim~~ ~~± including a transceiver, a plurality of directional antennas directed to each of specific~~ directions, and a power distributor coupling said antennas with said transceiver, the process comprising the steps of[[:]]:

selecting one of the antennas having the largest interference[[:]];

rotating an angle of polarization plane of the selected antenna to determine an angle of polarization plane called a reference angle so that interference becomes [[the]] a minimum[[:]];
and

determining an angle of polarization plane of each of the other antennas based upon said reference angle so that an angle of polarization plane of any said antenna is orthogonal to an angle of polarization plane of an adjacent antenna.

Claim 4 (currently amended): A process ~~Process~~ for determining an angle of polarization plane from a vertical plane or a horizontal plane in a radio LAN master station system ~~according to claim 1~~ including a transceiver, a plurality of directional antennas directed to each of specific directions, and a power distributor coupling said antennas with said transceiver, the process comprising the steps of[[:]]:

selecting one of the antennas having the largest interference[[:]];

selecting one of a vertical polarization plane and a horizontal polarization plane of said selected antenna, as a reference polarization plane[[:]]; and

determining an angle of polarization plane of other antennas based upon said reference polarization plane so that a polarization plane of any antenna is orthogonal to an adjacent antenna.

Claim 5 (currently amended): A process ~~Process~~ for determining an angle of polarization plane from a vertical plane or a horizontal plane in a radio LAN master station system ~~according to claim 1~~ including a transceiver, a plurality of directional antennas directed to each of specific directions, and a power distributor coupling said antennas with said transceiver, the process comprising the steps of[[:]]:

first steps comprising the steps of;

selecting one of the antennas having the largest interference[[:]];

selecting one of a vertical polarization plane and a horizontal polarization plane of said selected antenna, as a reference polarization plane[[,]];

determining the angle of polarization plane of other antennas based upon said reference polarization plane so that a polarization plane of any antenna is orthogonal to an adjacent antenna[[,]];

second steps comprising the steps of[[,]];

selecting one of the antennas having the largest interference ~~larger~~ greater than a predetermined threshold[[,]]; and

reversing the polarization plane of said selected antenna from vertical polarization to horizontal polarization, or from horizontal polarization to vertical polarization[[,]]; and

third steps repeating each of the steps of said second steps until interference of all the antennas becomes ~~smaller~~ less than said predetermined threshold.

Claim 6 (currently amended): A process ~~Process~~ for determining an angle of polarization plane from a vertical plane or a horizontal plane in a radio LAN master station system ~~according to claim 1~~ including a transceiver, a plurality of directional antennas directed to each of specific directions, and a power distributor coupling said antennas with said transceiver, the process comprising the [[steps]] step of[[,]]:

selecting one of a horizontal polarization and a vertical polarization of each antenna, so that interference of said antenna is the smaller.

Claim 7 (currently amended): A process ~~Process~~ for determining an angle of polarization plane from a vertical plane or a horizontal plane in a radio LAN master station system ~~according to claim 1~~ including a transceiver, a plurality of directional antennas directed to each specific directions, and a power distributor coupling said antennas with said transceiver, the process comprising the steps of[[:]]:

rotating a polarization plane of each antenna so that interference in said antenna is [[the]]
a minimum[[:]]; and

determining an angle of polarization plane which provides said minimum interference.

Claim 8 (currently amended): A process ~~Process~~ for determining an angle of polarization plane from a vertical plane or a horizontal plane in a radio LAN master station system ~~according to claim 1~~ including a transceiver, a plurality of directional antennas directed to each of specific directions, and a power distributor coupling said antennas with said transceiver, the process comprising the steps of[[:]]:

(a) the antennas being classified into groups each having a plurality of antennas, so that interference between adjacent groups is small[[:]]:

(b) determining a polarization plane of a first antenna in a first group[[:]];

(c) determining a polarization plane of a second antenna in a first group, said second antenna locating adjacent to said first antenna, so that a polarization plane of said second antenna is orthogonal to a polarization plane of said first antenna[[:]];

U.S. Patent Application Serial No. 10/083,508
Response to Office Action dated August 25, 2004

(d) repeating said step (c) for other antennas[[,]]; and

(e) repeating said steps (b) and (c) for the antennas in other groups.